

**FACILITY: COLLIDER ACCELERATOR DEPARTMENT**  
**CHAPTER: III "CONTROL AREA ACTIVITIES"**

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GUIDELINE	PERFORMANCE	EXCEPTIONS
<p>1) Control Area Access</p> <p>a) Only for official business</p> <p>b) Restrict access to controls</p> <p>c) Entry allowed by authorized individuals</p>	<p>1) Control Area Access</p> <p>a) The Main Control Room is limited to those persons on official business only. See <a href="#">OPM 2.3</a>, “Activities in Control Rooms.” The Main Control Room has clear boundaries of glass walls, regular walls and glass doors. Similar controls are used at other C-AD Control Rooms such as the Siemen’s Control Room, the TVDG Control Room and the Cryogenics Control Room.</p> <p>b) Only trained Operators and Operations Coordinators may manipulate controls and be unsupervised. Physicists may perform accelerator studies using a formal procedure, checklists and authorizations, see <a href="#">OPM 2.11</a>, “Conduct of Operations for Accelerator Physicists and Systems Specialists.”</p> <p>c) Authorized entry to Main Control Room is under the purview of the Operations Coordinator. See <a href="#">OPM 2.3</a>, "Activities in Control Rooms". All accelerator and experimental areas that are controlled for access are locked, and keys are issued only to trained and qualified personnel. Locks for primary areas are controlled electrically and the Access Control System automatically disables key access when beam is enabled.</p>	<p>1) Control Area Access</p> <p>None</p>
<p>2) Professional Behavior</p> <p>a) Prohibit distractions</p>	<p>2) Professional Behavior</p> <p>a) Professional behavior is encouraged at all times. Potentially distracting activities are generally prohibited; the Operations Coordinator is the arbitrator. See <a href="#">OPM 2.3</a>, "Activities in Control Room." The adjacent Main Control Room conference room is segregated from the Main Control Room by thick glass walls, and is not directly in view of Main Control Room personnel.</p>	<p>2) Professional Behavior</p> <p>None</p>
<p>3) Monitoring the Main Control Panels</p> <p>a) Take action to determine cause of abnormalities</p> <p>b) Provide backup to computer control systems</p>	<p>3) Monitoring the Main Control Panels</p> <p>a) Operators are trained to respond to alarms in a timely fashion, taking reasonable actions. For example, see <a href="#">OPM 2.2</a>, “Operating Practices,” Section 2.7, <a href="#">OPM 6.1.2</a>, “Responding to Chipmunk Interlocks,” <a href="#">OPM 6.1.3</a>, “Responding to Chipmunk Alarms,” and <a href="#">OPM 2.19</a>, “Response to Water Makeup Alarms.”</p> <p>b) Computer controlled interlocks are maintained by two separate and independent computer systems. The hard-wired interlock system is dual and independent. The action of hard-wired interlocks is monitored and</p>	<p>3) Monitoring the Main Control Panels</p> <p>None</p>

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	automatically recorded on a computer. Both the computer-controlled and hard-wired access control systems are maintained on un-interruptable power supplies. All systems fail safe on loss of electrical power.	
4) Control Room Operator Ancillary Duties a) Limit the ancillary activities of operators  b) If appropriate, perform administrative duties away from controls	4) Control Room Operator Ancillary Duties a) Ancillary duties assigned to operators do not interfere with their ability to monitor parameters. Reviewing procedures and required reading do not comprise a major portion of shift responsibilities.  b) Administrative duties may be performed at operating consoles as long as they do not interfere with the operator's primary duties.	4) Control Room Operator Ancillary Duties None
5) Operation of Control Area Equipment a) Operate only with specific authorization  b) Trainees should be supervised	5) Operation of Control Area Equipment a) Only persons specifically authorized by procedure may operate equipment from the Main Control Room or other C-AD Control Rooms. Authorizations are given by the Accelerator Division management based on meeting the training qualification. See <a href="#">OPM 2.11</a> "Conduct of Operations for Accelerator Physicists and Specialists." <a href="#">Training records</a> are web-based.  b) Trainees are not allowed to work alone at any location including the Main Control Room unless they are supervised. See <a href="#">OPM 2.4</a> , "Operator Trainees."	5) Operation of Control Area Equipment None